

RECEIVED

JAN 05 2004

The Commissioner of
Patents and Trademarks

TC 2600

The
United
States
of
America

PRIORITY DOCUMENT

CERTIFIED COPY OF



Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to any statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extension.

Bence Lehman

Commissioner of Patents and Trademarks

Pandra Morton

Attest

United States Patent [19]
Washino et al.

US005625410A

[11] Patent Number: 5,625,410
[45] Date of Patent: Apr. 29, 1997

[54] VIDEO MONITORING AND
CONFERRING SYSTEM

[75] Inventors: Kinya Washino, Dumont, N.J.; Barry
H. Schwab, West Bloomfield, Mich.

[73] Assignee: Kinywa Washino, Mahwah, N.J.

[21] Appl. No.: 418,823

[22] Filed: Apr. 7, 1995

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 50,861, Apr. 21, 1993, Pat.
No. 5,450,140, and Ser. No. 298,104, Aug. 30, 1994, Pat.
No. 5,537,157.

[51] Int. Cl.⁶ H04N 7/18

[52] U.S. Cl. 348/154; 348/398; 348/552;
386/112

[58] Field of Search 348/153, 154,
348/159, 398, 552; 358/342; 386/112; H04N 7/18

[56] References Cited

U.S. PATENT DOCUMENTS

5,027,222	6/1991	Shinbo	358/342
5,095,196	3/1992	Miyata	235/382
5,272,527	12/1993	Watanabe	348/154
5,481,297	1/1996	Cash	348/398

5,491,511	2/1996	Odle	348/153
5,521,634	5/1996	McGary	348/153
5,526,133	6/1996	Paff	348/153

OTHER PUBLICATIONS

Intellution's Plant TV Brochure Date unknown.

Primary Examiner—Howard W. Britton

Attorney, Agent, or Firm—Gifford, Krass, Groh, Sprinkle,
Patmore, Anderson & Citkowski

[57] ABSTRACT

A PC-based system for monitoring and storing representative images from video cameras may be utilized for security or other monitoring applications. Camera inputs from digital or analog sources are individually and independently digitized and displayed at a first set of image sizes, sampling rates, and frame rates, and may be stored in digital form on various recording media at a second set of image sizes, sampling rates, and frame rates, and these two sets of sizes and rates may or may not be identical. Provisions are included for adding detection or alarm systems which will automatically alter image size, sampling rate and/or frame rate of an individual input source, or activate other physical responses. In addition to security system monitoring, further applications of the invention are disclosed for process monitoring in manufacturing environments and also for applications in videoconferencing.

15 Claims, 8 Drawing Sheets

